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10/733,820	12/12/2003	John Charles Calhoon	003797.00692	8835	
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BANNER & WITCOFF LTD., ATTORNEYS FOR MICROSOFT 1001 G STREET, N.W.			BERHANU, SAMUEL		
			ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)			
Office Action Summary		10/733,820		CALHOON ET AL.			
		Examiner		Art Unit			
		Samuel Berl	nanu	2838			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status		र					
1)	Responsive to communication(s) filed on <u>01 F</u>	ebruary 2006	<u>.</u>				
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-21 and 28-31 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-21 and 28-31 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	ion Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 12 December 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 3) Infor	ot(s) Dee of References Cited (PTO-892) Dee of Draftsperson's Patent Drawing Review (PTO-948) The mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Deer No(s)/Mail Date	·) 5	Interview Summary Paper No(s)/Mail Da Da Notice of Informal P Da Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 8, 10 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Parks et al. (US 5,455,466).

Regarding claim 8, Parks et al disclose in Figures 1 and 2 an apparatus configured for receiving inductive energy, comprising: a memory for storing computer readable data (228) relevant to receiving the inductive energy; a processor unit (228) for processing the computer readable data; a coil configured for receiving the inductive energy (200b) and for receiving an inductive data communication (data and power are coupled inductively, see abstract); a power supply (operatively coupled to the processor unit and

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the coil (Column 3, lines 61-67, Column 4, lines 1-4); the power supply configured to output a direct current powered by the inductive energy (Column 2, lines 43-49) and relevant to the inductive data communication; a battery charge (224) for supplying energy to a battery pack (225); and a connector (the battery charging circuit (224) and the battery (225) are electrically connected) for operatively receiving a portion of a battery pack for logical communications with the processor unit

Regarding claim 10, Parks et al disclose a communications device (220) operatively coupled to the pickup coil (220).

Regarding claim 11, Parks et al disclose the communications device (220) is configured to receive the computer readable data and transmit the data to the coil (200b).

3. Claim 8 is rejected under 35 U.S.C. 102(e) as being anticipated by Lyon (US 2004/0145342).

Regarding claim 8, Lyon discloses in Figure 2, an apparatus configured for receiving inductive energy, comprising: a memory for storing computer readable data (238) relevant to receiving the inductive energy; a processor unit (240) for processing the computer readable data; a coil configured for receiving the inductive energy (232) and for receiving an inductive data communication (data and power are coupled inductively, Paragraphs 0023 and 0025); a power supply (230) operatively coupled to the processor unit and the coil; the power supply configured to output a direct current (rectifier) powered by the inductive energy; and relevant to the inductive data communication; a battery charge (230) for supplying energy to a battery pack (225);

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and a connector (the battery charging circuit (230) and the battery (234) are electrically connected)for operatively receiving a portion of a battery pack for logical communications with the processor unit

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 3-5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lyon (US 2004/0145342) in view of Gosior et al. (US 2002/0159434).

Regarding Claim 1, Lyon discloses in Figure 1, an apparatus for transmitting inductive energy to a battery charger assembly in proximity thereof, the battery charger assembly (230) including a microprocessor for processing data relevant to the inductive energy, the apparatus comprising: an inductive charging source (206) including a memory (216), for storing computer readable instructions relevant to providing inductive energy to a battery charger assembly; a processor unit (218) operatively coupled to the memory; a transmission element (210 to 212) operatively coupled to the processor unit so as to provide the inductive energy; a housing (106) for enclosing the memory and processor unit therein; a communication device (243) coupled to the transmission element for providing data communication (Noted that the communication element transmit data to the processor and the transmission element (the inductive coils) generate inductive energy based on the transmitted data) to the transmission element,

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the transmission element being configured to provide inductive data communications over an inductive pathway to the charger assembly (paragraphs 0023). However, Lyon does not disclose explicitly, data communications to the battery pack based on a polling message having a data communications to the battery pack based on a polling message having a header and a payload. However, Gosior et al. disclose in Figure 8, data communications to the battery pack based on a polling message having a data communications to the battery pack based on a polling message having a header and a payload (Paragraphs 0122). It would have been obvious to a person having ordinary skill in the art at the time of the invention to use a polling message that contains a payload, and a header as taught by Gosior et al. in Lyon's adaptive charger system and method in order to provide an efficient and reliable data transfer means for the charger and the device or the battery pack.

Regarding claim 3, Lyon discloses in Figures 1 and 2, discloses a communications device (242, 243) for receiving and transmitting data and the communications device being operatively coupled to the transmission element (210 to 212) (Noted that the communication element passed a data to the processor and the transmission element (the inductive coils) generate inductive energy based on the data)

Regarding claim 4, Lyon discloses in Figures 1 and 2, an apparatus further comprising an antenna (210) and a communications device configured to receive (243) the computer readable instructions and configured to transmit the instructions to the antenna for wireless data communications to a battery charger assembly.

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Regarding claim 5, Lyon discloses a processor unit (218) is configured to receive a plurality of power parameters from the battery pack (Paragraphs 0029 and 0032-0033).

Regarding Claim 7, Lyon discloses in Figures 1 and 2, a plurality of transmission elements (210 to 2120 responsive to receiving a transmission from a battery charging assembly (Paragraphs 0018).

6. Claims 2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lyon (US 2004/0145342) in view of Gosior et al. (US 2002/0159434 as applied to claim 1 above, and further in view of Stobbe (US 6,275,143).

Regarding claim 2, Lyon and Gosior et al. disclose all of the claim limitations, except the apparatus in which the memory includes authentication data for authenticating the battery charger assembly for the inductive energy transmission. However, Stobbe discloses the apparatus in which the memory includes authentication data for authenticating the battery charger assembly for the inductive energy transmission (Column 6, lines 5-20). It would have been obvious to a person having ordinary skill in the art at the time of the invention to implement authentication data transfer means in Lyon's charging system as taught by Stobbe in order to protect against unintentional or unwanted battery charging.

Regarding claim 6, Stobbe discloses a processor unit (18) is configured to receive a digital security certificate from a battery charger assembly (Column 6, lines 5-20).

7. Claims 9, 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parks et al. (US 5,455,466) in view of Stobbe (US 6,275,143).

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Regarding claim 9, Parks et al. disclose all of the claimed invention, except the processor unit is configured to provide authentication data for inductive energy recetiption. However, Stobbe discloses the apparatus in which the processor unit is configured to provide authentication data for inductive energy recetiption (Column 6, lines 5-20). It would have been obvious to a person having ordinary skill in the art at the time of the invention to implement authentication data transfer means in Parks et al. inductive coupling system as taught by Stobbe in order to protect against unintentional or against unwanted battery charging.

Regarding claim 13, Stobbe discloses the processor unit is configured to provide a digital certificate to a power source (Column 6, lines 5-20).

Regarding claim 15, Stobbe discloses the antenna (52) and a communications device (22,24) configured to receive the computer readable data and configured to transmit the data to the antenna for wireless data communications to a power source (Column 5, lines 35-45).

8. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Parks et al. (US 5,455,466) in view of Wendelrup et al. (US 6,291,966).

Regarding claim 12, Parks et al. do not disclose all of the claimed invention, except the processor unit is configured to receive a plurality of power parameters from the battery pack; store the power parameters in the memory; and transmit the power requirements to a power source which provides inductive energy. However, Wendelrup et al. disclose in Figures 1 and 2 processor unit (114) is configured to receive a plurality of power parameters from the battery pack (113); store the power parameters in the

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memory (116); and transmit (117,106) the power requirements to a power source, which provides inductive energy (Column 4, lines 31-52). It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify Parks et al. inductive coupling system in order to transmit battery parameter to electrical source as taught by Wendelrup et al. to provide effective battery monitoring system.

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9. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Parks et al. (US 5,455,466) in view of Garcia et al. (5,963,012).

Regarding claim 14, Parks et al. disclose all of the claimed invention, except the processor unit is configured to draw electrical power from the battery pack; and responsive to receiving an indication of inductive energy at the coil; the processor unit configured to draw electrical power via the coil. However, Garcia et al. disclose in Figure2 and 3, the processor unit (310) is configured to draw electrical power from the battery pack (304) and responsive to receiving an indication of inductive energy at the coil the processor unit configured to draw electrical power via the coil (208) (column 3, lines 17-52). It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify Parks et al. inductive coupling system in order to transmit battery parameters to control unit as taught by Graci et al. so that the device can make any necessary charging adjustments.

10. Claims 16, 17, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Garcia et al. (US 5,963,012) in view of Gosior et al. (US 2002/0159434).

Regarding claim 16, Garcia et al. disclose in Figures 2 and 3 a computer implemented method of providing battery assembly, a coil (204, 208) wirelessly receiving a polling message from a source (Column 2, lines 47-59), transmitting a request for power to the source responsive to receiving the polling message; and receiving inductive power via the coil from the source (Column 2, lines 30-59, Column 4, lines 7-41). Garcia et al. do not disclose the polling message including a data structure having a header and a payload. However, Gosior et al. disclose in Figure 8, data communications to the battery pack based on a polling message having a data communications to the battery pack based on a polling message having a header and a payload (Paragraphs 0122). It would have been obvious to a person having ordinary skill in the art at the time of the invention to use a polling message that contains a payload, and a header as taught by Gosior et al. in Garcia et al. inductive charger system and method in order to provide an efficient and reliable data transfer means for the charger and the device or the battery pack.

Regarding claims 17 and 21, Garcia et al. disclose the step of transmitting includes a step of transmitting power parameters to the source (column 2, lines47-59).

11. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Garcia et al. (US 5,963,012) in view of Gosior et al. (US 2002/0159434) as applied to claim 16 above, and further in view of Stobbe (US 6,275,143).

Regarding claim 18, neither Garcia et al. nor Gosior et al. disclose, the step of transmitting includes a step of transmitting authenticating data to the source. However, Stobbe discloses the step of transmitting includes a step of transmitting

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authenticating data to the source (Column 6, lines 5-20). It would have been obvious to a person having ordinary skill in the art at the time of the invention to implement authentication data transfer means in Garcia et al. wireless battery charging system as taught by Stobbe in order to protect against unintentional or unwanted battery charging.

12. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Garcia et al. (US 5,963,012) in view of Gosior et al. (US 2002/0159434) as applied to claim 16 above, and further in view of Parks et al. (US 5,455,466).

Regarding claim 19, neither Garcia et al. nor Gosior et al. disclose, a step of initiating a step of converting the inductive power to a direct current responsive to the step of receiving. However, Parks et al. disclose in Figure 1 a step of initiating a step of converting the inductive power to a direct current responsive to the step of receiving (Column 2, lines 35-50). It would have been obvious to a person having ordinary skill in the art at the time of the invention to add a charging rectifier circuit in Garcia et al wireless battery charging system as taught by Parks et al. in order to supply direct current appropriate for charging the battery pack.

13. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Garcia et al. (US 5,963,012) in view of Gosior et al. (US 2002/0159434) as applied to claim 16 above, and further in view of Wendelrup et al. (US 6,291,966).

Regarding Claim 20, neither Garcia et al. nor Gosior et al. disclose, step of receiving power parameters from battery pack and storing the power parameters in a computer readable memory. However, Wendelrup et al. disclose step of receiving power parameters from battery pack (113) and storing the power parameters in a computer

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readable memory (116). It would have been obvious to a person having ordinary skill in the art at the time of the invention to add a computer data storage element as taught by Wendelrup et al. in Garcia et al device in order to monitor battery status.

14. Claims 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lyon (US 2004/0145342) in view of Gosior et al. (US 2002/0159434).

Regarding Claim 28, Lyon does not disclose explicitly, the inductive data communication includes a polling message including a header and a payload. Gosior et al. disclose, the inductive data communication includes a polling message including a header and a payload. It would have been obvious to a person having ordinary skill in the art at the time of the invention to use a polling message that contains a payload, and a header as taught by Gosior et al. in Lyon's adaptive charger system and method in order to provide an efficient and reliable data transfer means for the charger and the device or the battery pack.

Regarding Claim 29, Lyon discloses, wherein the payload includes at least one of an operating parameter and authentication information (Paragraphs 0033).

Regarding Claim 30, Lyon discloses, wherein the payload contains specific data relevant to power consumption (Paragraphs 0033)

Regarding Claim 31, Lyon discloses wherein the operating parameter corresponds to a charging voltage or a maximum expected power consumption (Paragraphs 0033).

Response to Arguments

15. Applicant's arguments filed 2/01/2006 have been fully considered but they are not persuasive, or moot in view of the new ground(s) of rejection.

Applicant argues that Parks does not teach or suggest that a coil is configured to receive inductive data communications or the power supply configured to output a direct current powered by the inductive energy and relevant to the inductive data communication an inductive data communication or a pick up coil configured for receiving the inductive data communication and outputting a direct current powered by the inductive energy and relevant to the inductive data communication. This is not correct. This is not correct.

Parks discloses in Figure 2, a coil (200b) is configured to receive inductive data communications (see abstract) or the power supply configured to output a direct current (the bridge rectifier circuit is output a direct current) powered by the inductive energy and relevant to the inductive data communication. The inductive link is used to transfer data and power (see abstract and Column 2, lines 58-65). Perks also teaches that the signals induced by the secondary winding is inputted to the rectifier circuit and the charging circuit to charge the secondary battery (Column 4, lines 27-50).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel Berhanu whose telephone number is 571-272-8430. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on 571-272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SB

KARL EASTHOM SUPERVISORY PATENT EXAMINER